

Volume Nine

TABLE OF CONTENTS

1973 • Number One	
<i>Symposium on Cardiac Arrhythmias</i>	
<i>June 8, 9, 10, 1972</i>	
<i>Virginia Beach, Virginia</i>	
Introduction	6
CHARLES L. BAIRD, JR., M.D.	
Conducting Pathways of the Human Heart	7
FERGUS O'M. SHIEL, M.D.	
FABIO GUTIERREZ, M.D.	
Neural Effects on Cardiac Rate and Rhythm	11
H. PAGE MAUCK, JR., M.D.	
Introduction to the Phasic Effects of the Vagus on Sinoatrial and Atrioventricular Nodes	13
GORDON K. MOE, M.D., PH.D.	
The Critical Use of the His Bundle Electrogram	15
BENJAMIN J. SCHERLAG, PH.D.	
Electrophysiology of Concealed Conduction	22
E. NEIL MOORE, D.V.M., PH.D., F.A.C.C.	
Clinical Significance of Exit Block	26
IRANY M. DE AZEVEDO, M.D.	
YOSHIO WATANABE, M.D.	
LEONARD S. DREIFUS, M.D.	
Reentry	33
GORDON K. MOE, M.D., PH.D.	
The Gouaux-Ashman Phenomenon: His Bundle Recordings	34
BENJAMIN J. SCHERLAG, PH.D.	
Mechanisms of Supraventricular Tachycardia	39
BENJAMIN J. SCHERLAG, PH.D.	
RALPH LAZZARA, M.D.	
Some Mechanisms of Supraventricular Tachycardia	46
GORDON K. MOE, M.D., PH.D.	
Ventricular Tachyarrhythmias	48
BORYS SURAWICZ, M.D.	
Pharmacology of Antiarrhythmics: Quinidine, Beta-Blockers, Diphenylhydantoin, Bretylium	53
ALBERT J. WASSERMAN, M.D.	
JACK D. PROCTOR, M.D.	
The Pharmacology and Clinical Use of Lidocaine and Procainamide	65
J. THOMAS BIGGER, JR., M.D.	
ELSA-GRACE V. GIARDINA, M.D.	

The Evaluation of the Sinoatrial Node Function in Man	77
J. THOMAS BIGGER, JR., M.D.	
HAROLD C. STRAUSS, M.D., C.M.	
Mechanisms of A-V Block	86
LEONARD S. DREIFUS, M.D.	
JOSEPH MCMENAMIN, M.D.	
DEMETRIS KIMBIRIS, M.D.	
Microelectrode and His Bundle Studies on Type I and II Second Degree A-V Block	92
E. NEIL MOORE, D.V.M., PH.D., F.A.C.C.	
JOSEPH F. SPEAR, PH.D.	
Recent Studies in the Pre-Excitation Syndrome	99
E. NEIL MOORE, D.V.M., PH.D., F.A.C.C.	
Workshop	104
1973 • Number Two	
<i>Symposium on Respiratory Failure</i>	
<i>May 25, 26, 1972</i>	
<i>Richmond, Virginia</i>	
Introduction	120
JAMES P. BAKER, M.D.	
Clinical Pathological Correlation of Chronic Obstructive Pulmonary Disease (COPD)	121
ORHAN MUREN, M.D.	
The Pathophysiology of Respiratory Failure in Chronic Obstructive Pulmonary Disease	126
JOHN L. PATTERSON, JR., M.D.	
JAMES P. BAKER, M.D.	
WALTER J. O'DONOHUE, JR., M.D.	
Arterial Blood Gases: Their Meaning and Interpretation	130
WALTER J. O'DONOHUE, JR., M.D.	
The Basic Principles of Acid-Base Regulation	134
ORHAN MUREN, M.D.	
Non-Ventilator Management of Respiratory Failure: The Ventimask	141
WILLIAM B. HUNT, JR., M.D.	
Principles of Inhalation Therapy	145
WALTER J. O'DONOHUE, JR., M.D.	
How to Get Patients On and Off Respirators	148
TERRING W. HEIRONIMUS, III, M.D.	
Complications of Mechanical Ventilation	154
ORHAN MUREN, M.D.	

Recognition of the Asthmatic Component of Respiratory Failure JOHN L. GUERRANT, M.D.	157
Management of Severe Asthma WILLIAM B. HUNT, JR., M.D.	159
Ambulatory Care for Emphysema and Chronic Bronchitis THOMAS L. PETTY, M.D., F.C.C.P.	164
Trauma Resulting in Respiratory Failure JAMES W. BROOKS, M.D.	173
The Adult Respiratory Distress Syndrome: Clinical Features, Factors Influencing Prognosis and Principles of Management THOMAS L. PETTY, M.D., F.C.C.P. DAVID G. ASHBAUGH, M.D.	181
Bedside Assessment of Left Ventricular Function in the Respiratory Intensive Care Unit CLIFTON L. PARKER, M.D.	190
The Respiratory Intensive Care Unit JAMES P. BAKER, M.D.	194
<hr/>	
1973 • Number Three	
<i>Twenty-Sixth Annual Stoneburner Lecture Series Clinical Adult and Pediatric Urology February 22, 23, 1973</i>	
Introduction WARREN W. KOONTZ, JR., M.D.	206
A Twenty-Year Experience with Surgery for Ureteral Reflux JOHN HUTCH, M.D.	207
Medical Management of Stone Disease M. J. VERNON SMITH, M.D., Ph.D.	212
Some Important Factors in a Community Dialysis Program ALLAN A. HOFFMAN, M.D.	216
Surgery of the Adrenal Glands ARTHUR W. WYKER, JR., M.D.	223
Urinary Incontinence: A Problem to Hold On To JOHN H. TEXTER, JR., M.D.	230
Prostatic Acid Phosphatase: A Potpourri CHARLES W. MONCURE, M.D.	235
Carcinoma of the Prostate: The Great Widow-Maker JOHN K. LATTIMER, M.D.	240
Psychiatric Problems in Urology JAMES L. MATHIS, M.D.	245
The Urologist and the Law JACK B. RUSSELL, J.D.	249
Renal Hypertension EUGENE F. POUTASSE, M.D.	254
Urological Care of the Paralyzed Patient ROBERT H. HACKLER, M.D.	256

Pediatric Uro-Radiology HERMAN GROSSMAN, M.D.	261
The Optimum Treatment for Undescended Testis JOHN K. LATTIMER, M.D., ScD.	270
Wilms' Tumor and Neuroblastoma: Results of Therapy HAROLD M. MAURER, M.D.	275
Surgery of the Genitalia in Children CHARLES J. DEVINE, JR., M.D.	280
<hr/>	
1973 • Number Four	
<i>Forty-Fourth Annual McGuire Lecture Series The Clinical Laboratory in Medical Practice March 22, 23, 1973</i>	
Introduction GEORGE P. VENNART, M.D.	292
Advancing Technology of Clinical Laboratory Practice GEORGE Z. WILLIAMS, M.D., D.Sc.	293
Utilization of Blood and Its Products ROBERT D. LANGDELL, M.D.	298
Meaningful Toxicology ROBERT V. BLANKE, Ph.D.	301
Microbial Monitoring HARRY P. DALTON, Ph.D.	304
Newer Techniques in Clinical Cytology: Aspiration Biopsy and Brushing Cytology WILLIAM J. FRABLE, M.D.	310
Laboratory Aspects of Venereal Disease MARIO R. ESCOBAR, Ph.D.	317
The Modernization of the Autopsy: Application of Ultrastructural and Biochemical Methods to Human Disease BENJAMIN F. TRUMP, M.D., et al.	323
HAA (HB Ag) Evaluation—State of the Art ALI A. HOSSAINI, Ph.D. MARIO R. ESCOBAR, Ph.D.	334
Quality Control in the Office Laboratory JOSEPH R. RIDDICK, JR., M.D.	342
Commercial and Reference Laboratories GEORGE J. CARROLL, M.D.	347
Evaluation of Prepackaged "Kits" REX B. CONN, M.D.	350
Unique Characteristics and Implications of Individual Health Profiles GEORGE Z. WILLIAMS, M.D., D.Sc.	355
The Value of Chemical Screening Profiles on Blood SEYMOUR BAKERMAN, M.D.	360

Multitest Screening in Hematology CHARLES L. JOHNSTON, JR., M.D.	362	Genetic—Metabolic News	371
Pitfalls in Unqualified Acceptance of Laboratory Data MYRTON F. BEELER, M.D.	368	Table of Contents for Volume Nine	375
		Author Index for Volume Nine	377

Volume Nine

AUTHOR INDEX

ASHBAUGH, DAVID G., 181

BAIRD, CHARLES L., JR., 6

BAKER, JAMES P., 120, 126, 194

BAKERMAN, SEYMOUR, 360

BEELER, MYRTON F., 368

BIGGER, J. THOMAS, JR., 65, 77

BLANKE, ROBERT V., 301

BROOKS, JAMES W., 173

CARROLL, GEORGE J., 347

CONN, REX B., 350

COWLEY, R. ADAMS, 323

DALTON, HARRY P., 304

DE AZEVEDO, IRANY M., 26

DEES, JANE H., 323

DEVINE, CHARLES J., JR., 280

DREIFUS, LEONARD S., 26, 86

ESCOBAR, MARIO R., 317, 334

FRABLE, WILLIAM J., 310

GARBUS, JOEL, 323

GARCIA, JULIO H., 323

GIARDINA, ELSA-GRACE V., 65

GROSSMAN, HERMAN, 261

GUERRANT, JOHN L., 157

GUTIERREZ, FABIO, 7

HACKLER, ROBERT H., 256

HEIRONIMUS, TERRING W., III, 148

HOFFMAN, ALLAN A., 216

HOSSAINI, ALI A., 334

HUNT, WILLIAM B., JR., 141, 159

HUTCH, JOHN, 207

JOHNSTON, CHARLES L., JR., 362

JONES, RAYMOND T., 323

KALIMA, HANNU, 323

KAMIJYO, YOSHINARI, 323

KIM, KOOK M., 323

KIMBIRIS, DEMETRIS, 86

KOONTZ, WARREN W., 206

LANGDELL, ROBERT D., 298

LATTIMER, JOHN K., 240, 270

LAZZARA, RALPH, 39

MCMENAMIN, JOSEPH, 86

MATHIS, JAMES L., 245

MAUCK, H. PAGE, JR., 11

MAURER, HAROLD M., 275

MERGNER, WOLFGANG J., 323

MOE, GORDON K., 13, 33, 46

MONCURE, CHARLES W., 235

MOORE, E. NEIL, 22, 92, 99

MUREN, ORHAN, 121, 134, 154

O'DONOHUE, WALTER J., JR., 126, 130,
145

PARKER, CLIFTON L., 190

PATTERSON, JOHN L., JR., 126

PENDERGRASS, ROBERT E., 323

PETTY, THOMAS L., 164, 181

POUTASSE, EUGENE F., 254

PROCTOR, JACK D., 53

RIDDICK, JOSEPH R., JR., 342

RUSSELL, JACK B., 249

SCHERLAG, BENJAMIN J., 15, 34, 39

SHIEL, FERDUS O'M., 7

SMITH, M. J. VERNON, 212

SPEAR, JOSEPH F., 92

STRAUSS, HAROLD C., 77

SURAWICZ, BORYS, 48

TANAKA, JUNICHI, 323

TEXTER, JOHN H., JR., 230

VALIGORSKY, JON M., 323

VENNART, GEORGE P., 292

VILORIA, JESUS E., 323

WASSERMAN, ALBERT J., 53

WATANABE, YOSHIO, 26

WILLIAMS, GEORGE Z., 293, 355

WYKER, ARTHUR W., JR., 223